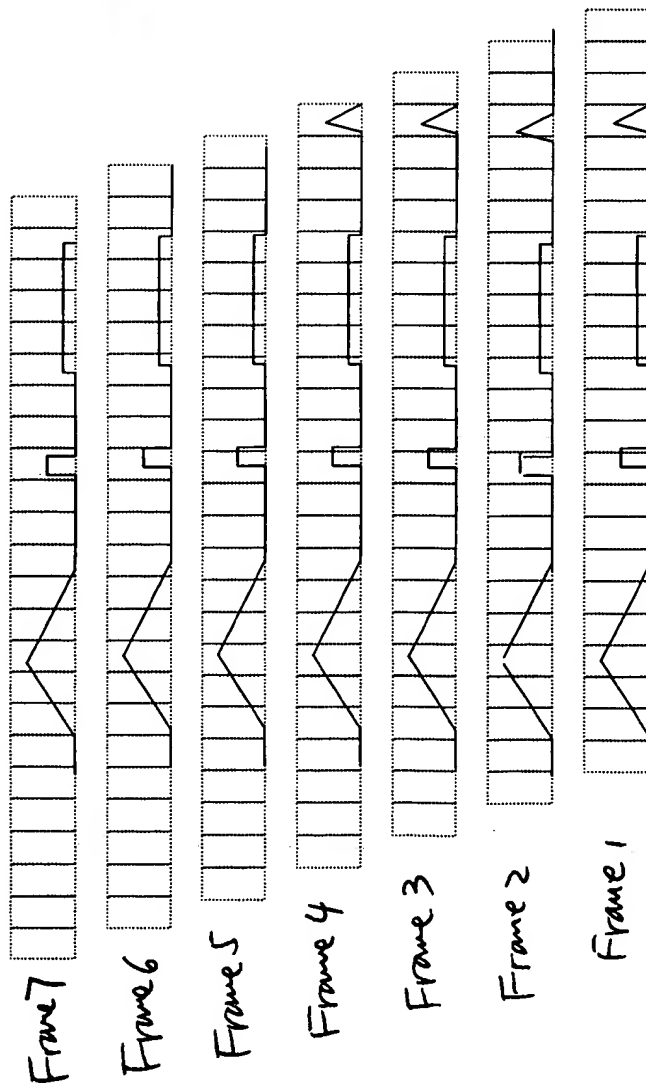
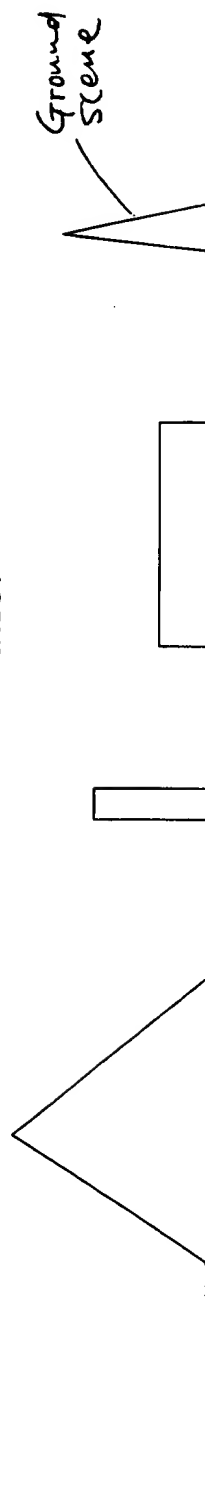


FIG. 1A Time-Delayed Integration



Averaging of successive images (shifted by one-pixel) taken in sequence from a moving platform such as an airplane or satellite in order to improve the signal-to-noise ratio.



**FIG. 1B**

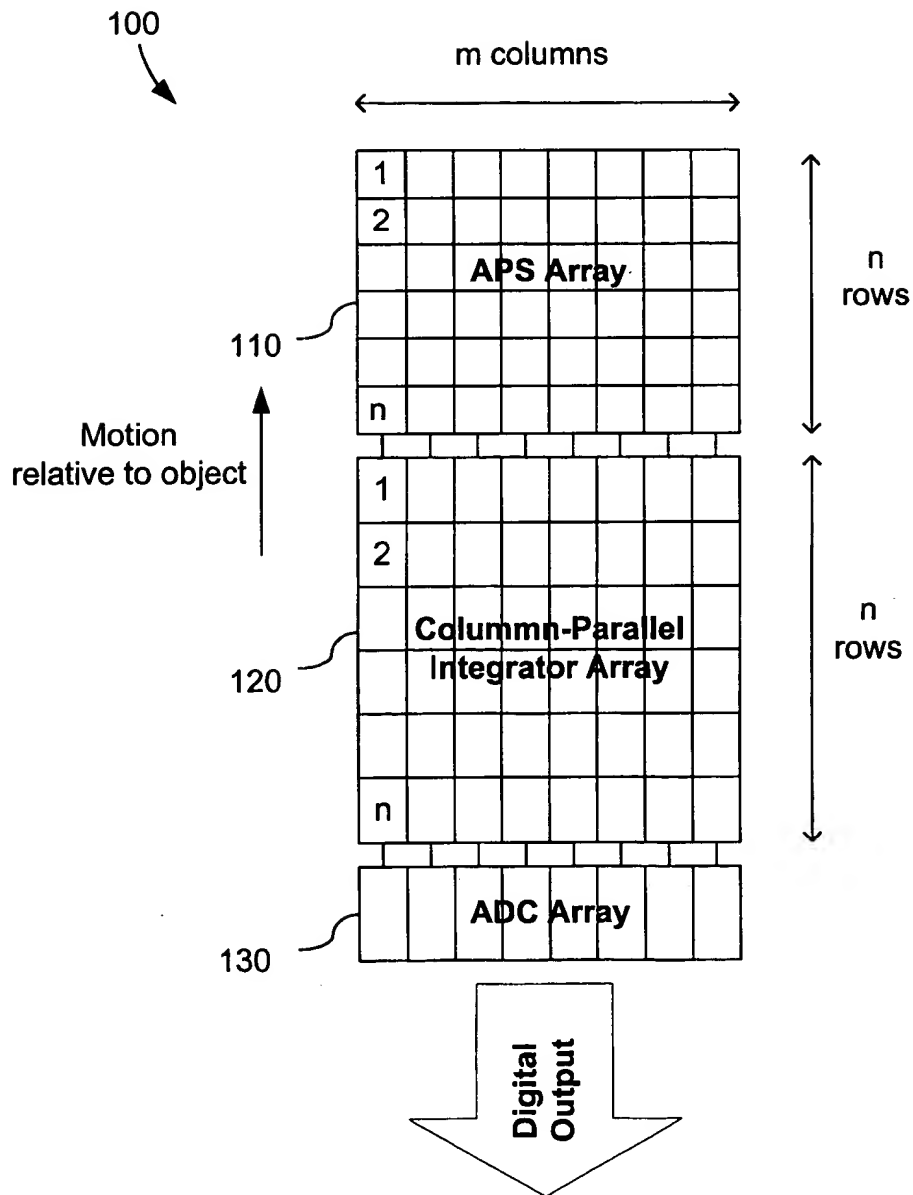


FIG. 1C. Time-Delayed Integration: Clocking Operation

<u>First Frame</u>	<u>Second Frame</u>	<u>Third Frame</u>
Pixel 1 → Integrator 1	Pixel 2 → Integrator 1	Pixel 3 → Integrator 1
Pixel 2 → Integrator 2	Pixel 3 → Integrator 2	Pixel 4 → Integrator 2
Pixel 3 → Integrator 3	Pixel 4 → Integrator 3	Pixel 5 → Integrator 3
Pixel 4 → Integrator 4	Pixel 5 → Integrator 4	Pixel 6 → Integrator 4
Pixel 5 → Integrator 5	Pixel 6 → Integrator 5	Pixel 7 → Integrator 5
•	•	•
•	•	•
•	•	•

FIG. 2A

200

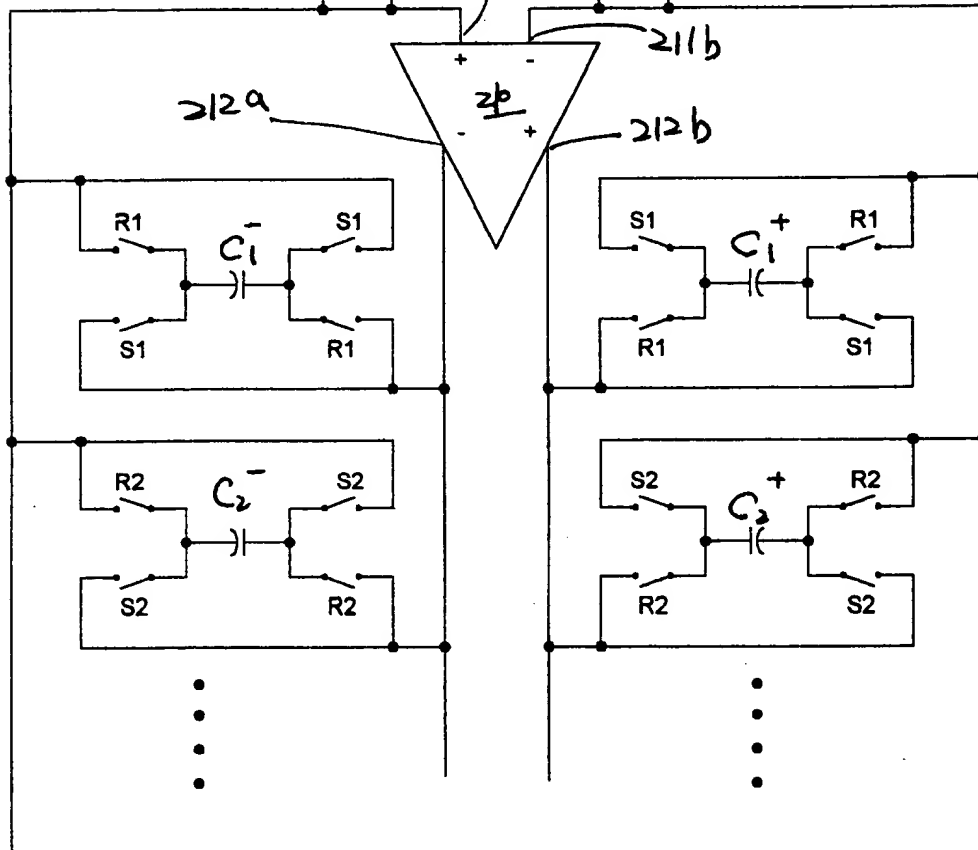
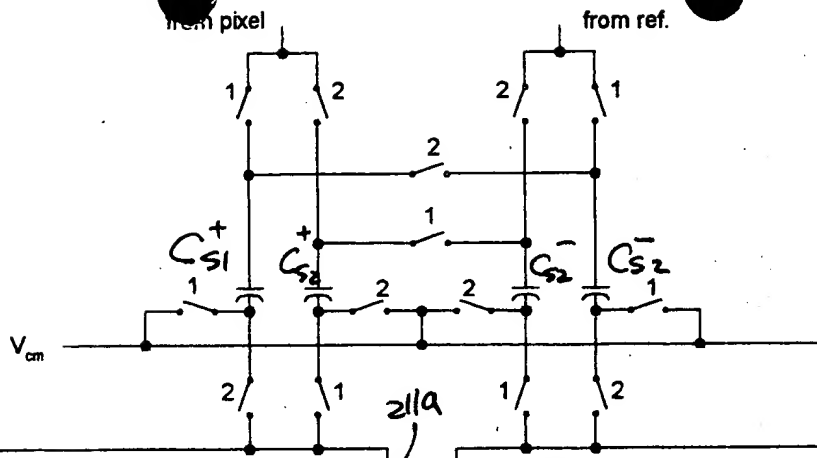


FIG. 2B

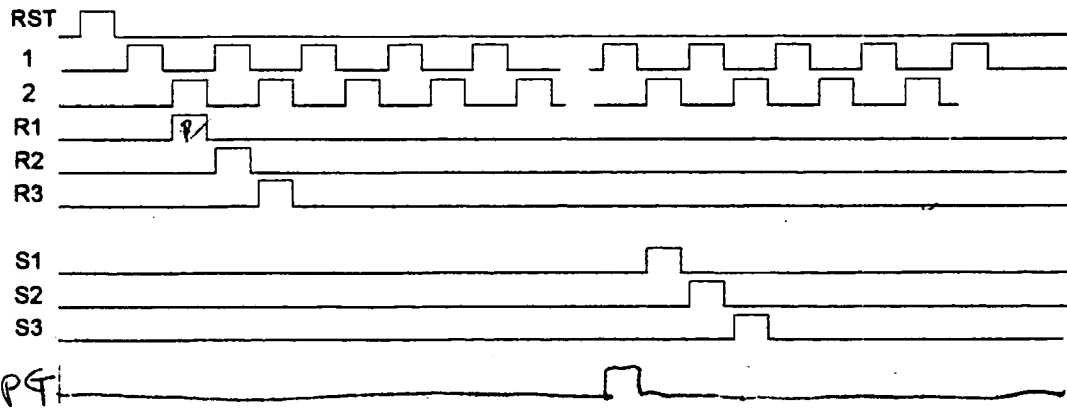


FIG. 3A

300

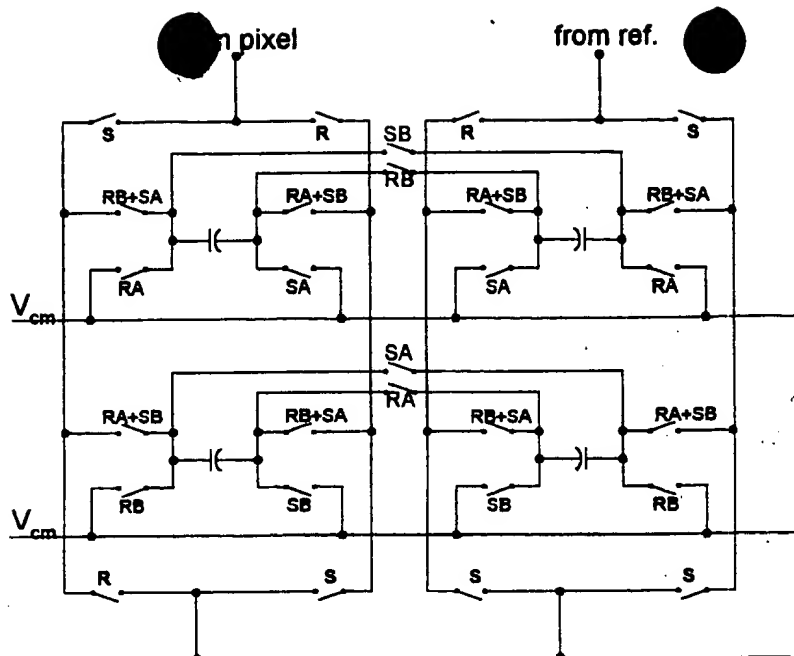
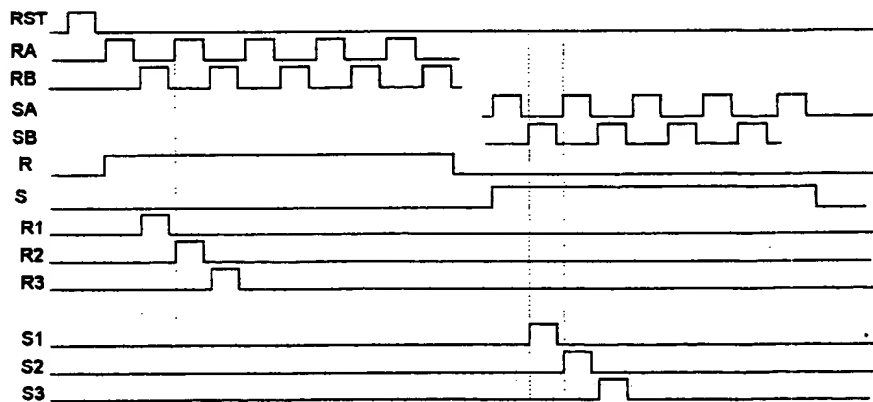
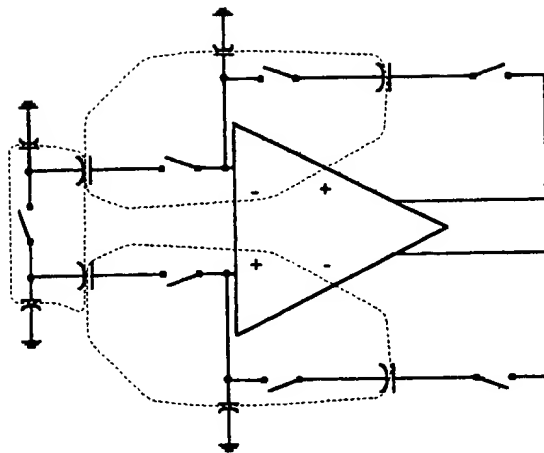


FIG. 3B



**FIG. 4A**



**FIG. 4B**

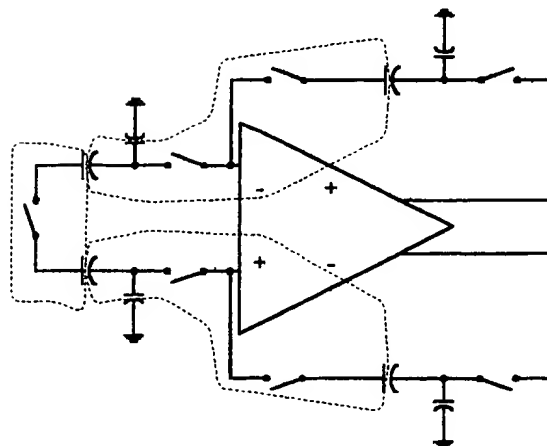


FIG. 5A

500

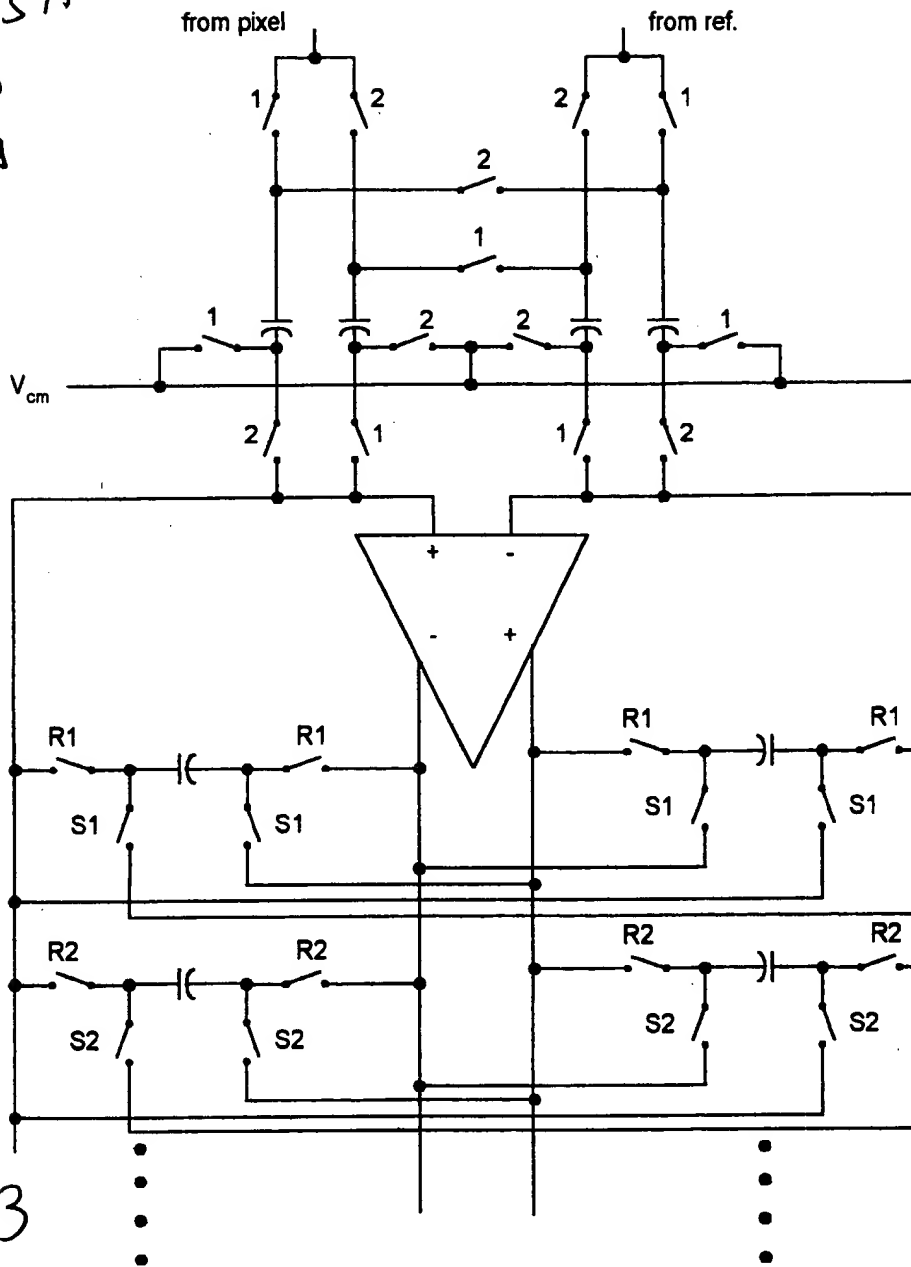


FIG. 5B

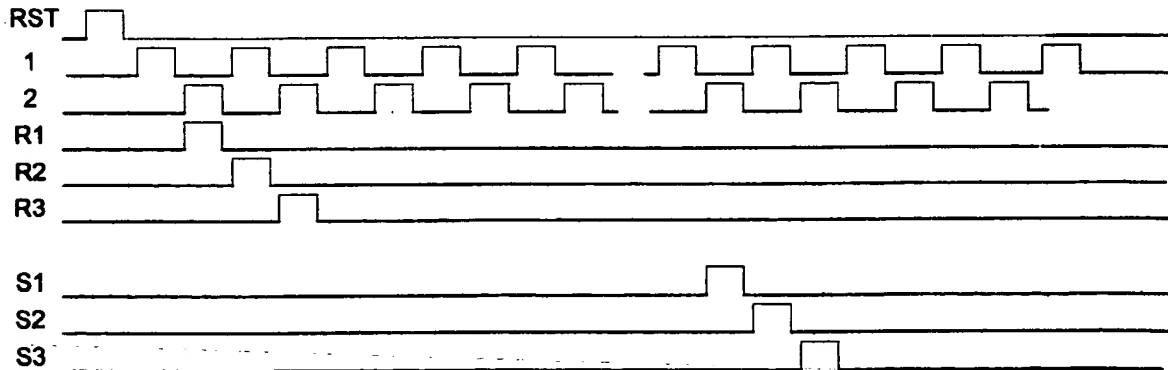


FIG. 6

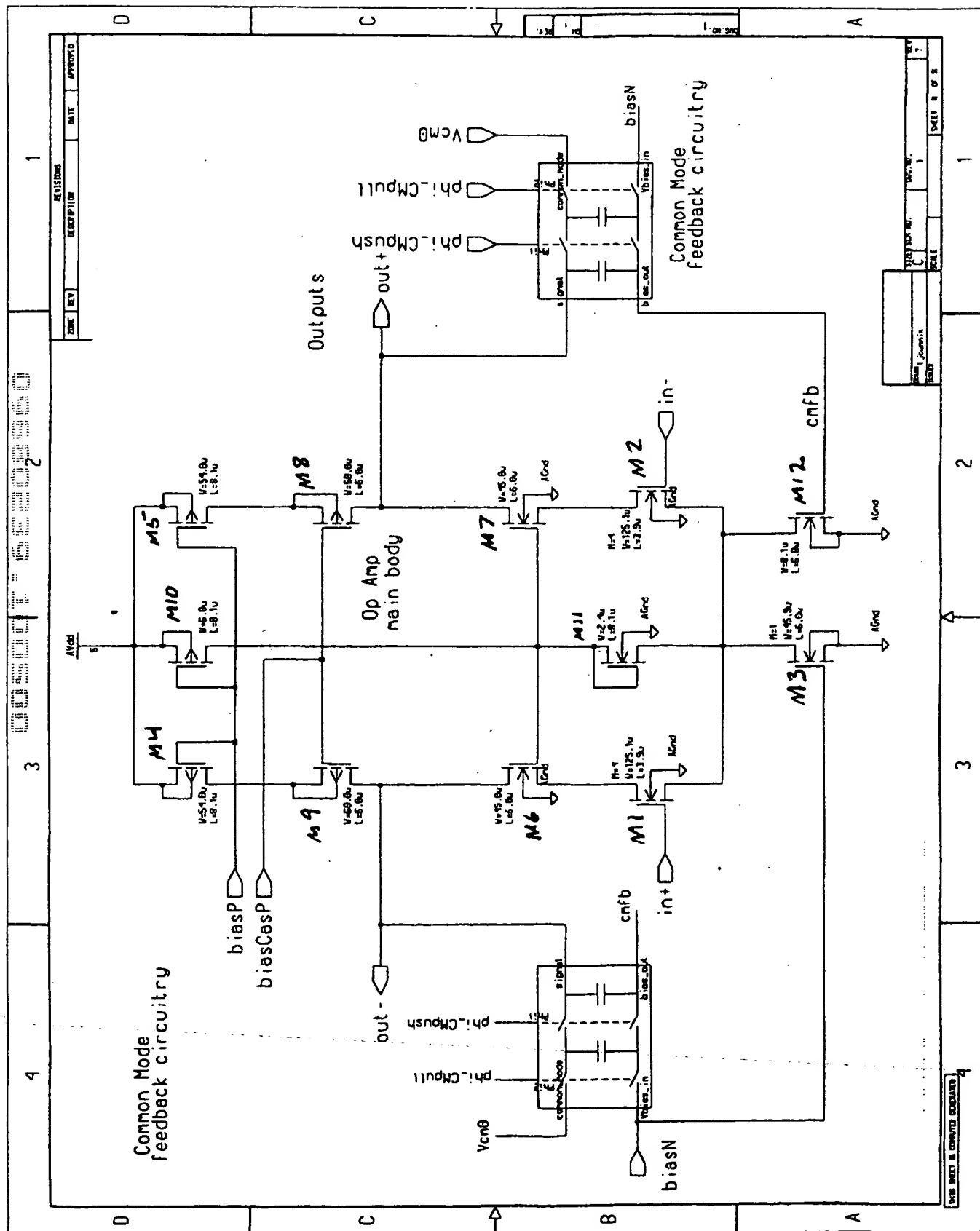




FIG. 7A

700

After Pixel Reset

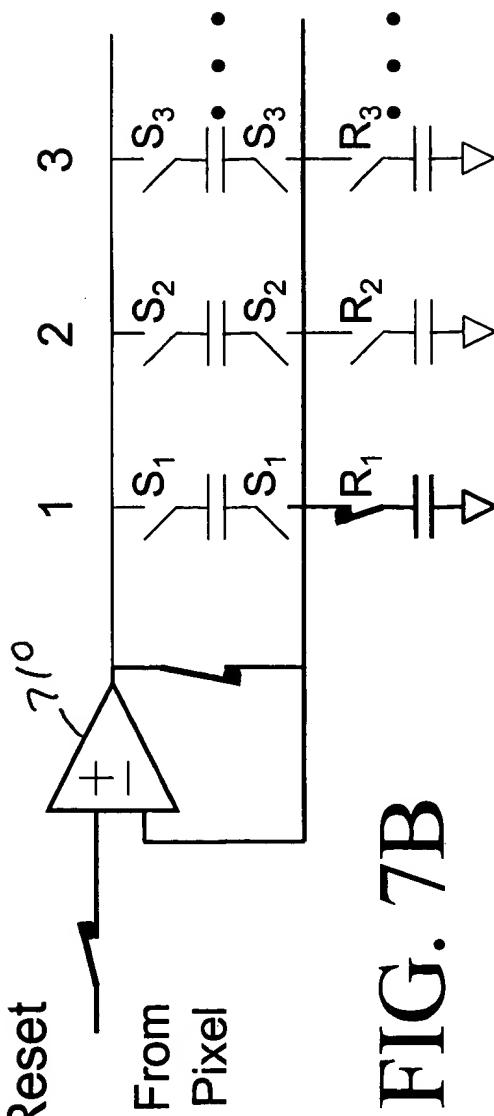


FIG. 7B

After Photogate Transfer

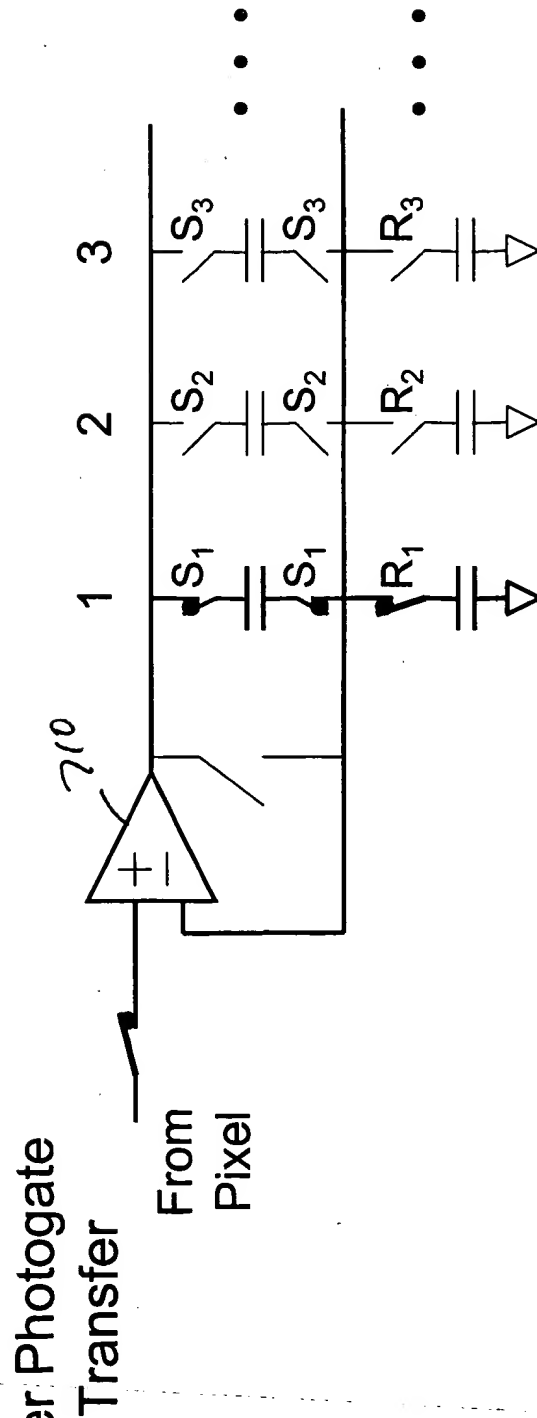


FIG. 7C

